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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,593	12/31/2003	Joseph Patino	CE11882JEM	8591
7590	01/13/2006		EXAMINER	
Larry G. Brown Motorola, Inc. Law Department 8000 West Sunrise Boulevard Fort Lauderdale, FL 33322			BOATENG, ALEXIS ASIEDUA	
			ART UNIT	PAPER NUMBER
			2838	
DATE MAILED: 01/13/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	S1
	10/750,593	PATINO ET AL.	
Examiner	Art Unit		
Alexis Boateng	2838		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 31 December 2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-20 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 31 December 2003 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3, 6, 10, 12, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Chao (U.S. 6,057,668).

Regarding claims 1, 10, and 19, Chao discloses wherein a method for charging a battery, comprising the steps of:

supplying a charging current to a battery (column 1 lines 47 – 45);

sensing the charging current to the battery (figure 1 item 12);

selectively signaling an electronic device from the battery to indicate at least one parameter of the battery as the battery is receiving the charging current (figure 1 item 134; column 3 line 6 – 18).

Regarding claim 2, Chao discloses wherein the charging current is from a wireless charger (column 2 line 33 – 39).

Regarding claim 3 and 12, Chao discloses wherein the parameter is at least one of a charging state of the battery and a predetermined current threshold of the charging current (column 1 lines 66 – column 2 line 6).

Regarding claims 4 and 13, Chao discloses in figure 2 wherein the battery signals the electronic device over an input/output line, figure 2 items 16 and 17,

and wherein the input/output line is a preexisting reading conductor, figure 2 item

15. For an alternative view, in case a separated line and thermistor are required, to meet claims, 4 and 13, see the 103 rejection below.

Regarding claims 5 and 14, Chao discloses wherein the preexisting reading conductor is a thermistor (figure 2). No thermistor is claimed, but since the line previously described could be connected to a thermistor, the claims are met. For an alternative view, in case a separated line and thermistor are required, to meet claims, 5 and 14, see the 103 rejection below.

Regarding claim 6 and 15, Chao discloses wherein further comprising the step of disabling a charging circuit in the electronic device (column 3 lines 50 – 58: charging is ceased when it becomes too high).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4-5, 13, and 14, are rejected under 35 U.S.C. 103(a) as being unpatentable over Chao (U.S. 6,057,668) in view of Watts (U.S. 2002/0175658).

Regarding claims 4, 5, 13 and 14, Chao does not disclose the invention as claimed. Watts discloses in figure 2 wherein the battery signals the electronic device over an input/output line, figure 2 items 16 and 17, and wherein the

input/output line is a preexisting reading conductor, figure 2 item 15. Watts discloses wherein the preexisting reading conductor is a thermistor, figure 2 item 15. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Chao system with the Watts system so that the controller can monitor the temperature and charging operations of the system.

5. Claims 7-9, 11, 16, 18, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chao (U.S. 6,057,668) in view of Sengupta (U.S. 6,320,354).

Regarding claim 7 and 16, Chao does not disclose wherein the method comprises the step of updating a charging indicator of the electronic device. Sengupta discloses in column 5 lines 52 – 65 wherein a charge indicator is used to identify the level of charge. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Chao system with the Sengupta system so that the system shows the user when the battery needs to be charged and when charging should be stopped.

Regarding claim 8, Chao does not disclose the invention as claimed. Sengupta discloses in column 3 line 50 – column 4 line 33 wherein controller toggles the between input/output line between a high state, a low state and a release state during the signaling step. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Chao system with the Sengupta system so that controller can be recharged.

Regarding claim 9, Chao discloses supplying a charging current form a wireless charger to a battery in column 1 lines 47 – 45 and sensing a the charging current

in figure 1 item 12. Chao further discloses in figure 1 item 134 and in column 3 line 6 – 18 wherein the battery indicates to the electronic device at least one parameter of the battery as the battery is receiving the charging current. Chao discloses the invention as previously claimed, but does not disclose the remainder. Sengupta discloses in column 3 line 50 – column 4 line 33 wherein the system selectively switches between high and low states an input/output lines between an electronic device. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Chao system with the Sengupta system so that controller can be recharged.

Regarding claim 11 and 18, Chao discloses in column 1 lines 6 –10 wherein the charger is used is contact-free, but does not disclose wherein the charging monitor is a processor. Sengupta discloses in figure 5 item 507 (identified as item 506 in specification), wherein the charging monitor is a processor. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Chao system with the Sengupta system because it is more efficient to monitor the charge by using specific programs.

6. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sengupta (U.S. 6,320,354) in view of Chao (U.S. 6,057,668).

Regarding claim 20, Sengupta discloses an electronic device comprising a processor (figure 5 item 507); an input/output line coupled to the processor (figure 4 items 414 (output line) and 416 (input line)); a charging circuit (figure 5 item 404); a charging indicator (figures 7-9); wherein the processor is

programmed to detect signals over the input/output line and in response to the detection of the signals (column 3 line 50 – column 4 line 33), and updating the charging indicator (column 5 lines 52 – 65). Sengupta discloses the invention as claimed, but does not disclose wherein the processor is further programmed to perform at least one of disabling the charging circuit. Chao discloses in column 3 lines 50 – 58 wherein charging is ceased when it becomes too high. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Chao system with the Sengupta system so that damaging overcharge is prevented.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexis Boateng whose telephone number is (571) 272-5979. The examiner can normally be reached on 8:30 am - 6:00 pm, Monday - Friday.

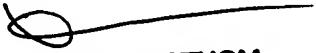
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



KARL EASTHOM
SUPERVISORY PATENT EXAMINER

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AB



KARL EASTHOM
SUPERVISORY PATENT EXAMINER